



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Applicant:

Paul C. Kocher

Application No.: 09/930,836

Filing Date: August 15, 2001

Title: Cryptographic Computation Using  
Masking to Prevent Differential Power  
Analysis and Other Attacks

Confirmation No.: 2389

Group Art Unit: 2132

Examiner: Herring, Virgil A.

Attorney Docket No.: 44424162-8724

**INFORMATION DISCLOSURE  
STATEMENT**

SONNENSCHN NATH & ROSENTHAL LLP  
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M/S RCE  
Commissioner for Patents  
P.O. Box 1450  
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*March 28, 2007*

date of signature

*Edward J. Radlo*

Edward J. Radlo, Reg. No. 26,793

Sir:

Pursuant to the provisions of 37 CFR § 1.56 and § 1.97-§ 1.98, Applicants hereby submit patents, publications or other information enclosed herewith and listed on the enclosed Form PTO/SB/08A of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose. This IDS is being filed simultaneously with a Request for Continued Examination under § 1.114.

A list of the patents and publications is set forth on the attached Form PTO/SB/08A. A copy of each of the items on the PTO/SB/08A is supplied herewith, except for the four issued United States Patents.

All of the documents were cited in at least one opposition filed against a related European patent, and were first communicated from our foreign associate to the undersigned in February 2007.



PATENT

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While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, submission of this IDS is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that this Information Disclosure Statement complies with 37 CFR § 1.98 and MPEP § 609, and the Examiner is respectfully requested to consider the listed references.

The Commissioner is hereby authorized to charge our Deposit Account No. 19-3140 for any fees required in connection with the filing of this Information Disclosure Statement. This sheet is being submitted in duplicate.

Respectfully submitted,

date of signature:

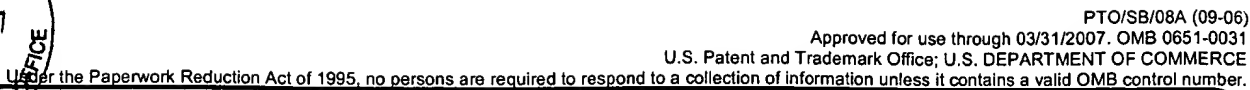
March 26, 2007

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cc: IP/T docket CH (w.PTO/SB/08A)  
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Examiner Name	Herring, Virgil A
Attorney Docket Number	44424162-8724

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 97/13342	04-10-1997	GEM-PLUS S.C.A.		
		WO 98/52319	11-19-1998	Yeda Research and Development Co.		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Examiner Name	Herring, Virgil A
Attorney Docket Number	44424162-8724

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		"Announce: Timing Cryptanalysis of RSA, DH, DSS", sci.crypt newsgroup postings, 13-15 December 1995.	
		"Digital Signature Standard (DSS)", Federal Information Processing Standards Publication 186, 19 May 1994, downloaded: 22 January 2007, website: <a href="http://www.itl.nist.gov/fipspubs/fip186.htm">http://www.itl.nist.gov/fipspubs/fip186.htm</a>	
		"EUROCRYPT '97 Rump Session Program", May 13, 1997, Konstanz, Germany, downloaded: 29 January 2007, website: <a href="http://www.iacr.org/conferences/ec97/rump.html">http://www.iacr.org/conferences/ec97/rump.html</a>	
		"Kocher Algorithm", sci.crypt newsgroup postings, Google Groups, 12 March 1996, <a href="http://groups.google.fr/group/sci.crypt/browse_thread/thread/240f02445602362e/644d5300cbbf7e3?lnk=gst&amp;q=%q=%22Kocher+Algorithm%22&amp;num=1&amp;ht=fr644d5300cbbf7e3">http://groups.google.fr/group/sci.crypt/browse_thread/thread/240f02445602362e/644d5300cbbf7e3?lnk=gst&amp;q=%q=%22Kocher+Algorithm%22&amp;num=1&amp;ht=fr644d5300cbbf7e3</a>	
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		BOVELANDER, Ernst, "Smart Card Security 'How Can We Be So Sure?'" , COSIC '97 Course, Incs 1528, Springer-Verlag, 1998, pp. 333-337.	

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		BURMESTER et al., "A Secure and Efficient Conference Key Distribution System", LNCS 1189, Proc. International Workshop on Security Protocols, 1996, Springer-Verlag, 1998, pp. 275-286.	
		DAEMEN, Joan, "Management of Secret Keys: Dynamic Key Handling", LNCS 1528, Proc. COSIC '97 Course, Springer-Verlag, 1998, pp. 264-276.	
		FRANKEL et al., "Proactive RSA", Sandia Report SAND96-0856, April 15, 1996.	
		GENNARO et al., "Robust Threshold DSS Signatures", LNCS 1070, Proc. Eurocrypt '96, Springer-Verlag, 1998, pp. 354-371.	
		GILLOGLY et al., "Notes on Crypto '95 Invited Talks by R. Morris and A. Shamir", Cipher 9, 18 September 1995, <a href="http://www.laee-security.org/cipher/confreports/conf-rep-Crypto95.html">http://www.laee-security.org/cipher/confreports/conf-rep-Crypto95.html</a>	
		HERZBERG et al., "Proactive Secret Sharing Or: How to Cope with Perpetual Leakage", LNCS 963, Proc. Crypto '95, Springer-Verlag, 1998, pp. 339-352.	
		JABLON, David P., "Strong Password-Only Authenticated Key Exchange", Computer Communication Review, September 25, 1996, Vol. 26, No. 5, pp. 5-26.	
		KOCHER, P., Message: "Re: Timing cryptanalysis of RSA, DH, DSS (Tomazic, RISKS 17.59)", The Risks Digest, Forum on Risks to the Public in Computers and Related Systems, Volume 17: Issue 60, 3 January 1996, downloaded: 23 January 2007, website: <a href="http://catless.ncl.ac.uk/Risks/17.60.html">http://catless.ncl.ac.uk/Risks/17.60.html</a>	
		MATSUMOTO et al., "Speeding Up Secret Computations with Insecure Auxiliary Devices", LNCS 403, Proc. Crypto '88, Springer-Verlag, 1998, pp. 499-506.	
		NACCACHE et al., "Can D.S.A. be Improved?" -Complexity Trade-Offs with the Digital Signature Standard-", LNCS 950, Proc. Eurocrypt '94, 1995, Springer-Verlag, 1998, pp. 77-85.	

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		NACCACHE, David, "Can O.S.S. be Repaired?" - Proposal for a New Practical Signature Scheme-, LNCS 765, Proc. Eurocrypt '93, 1994, Springer-Verlag, 1998, pp. 233-239.	
		NACCACHE, David, "To Whom it May Concern", Forensic Expert Witness by the Court of Appeal, Paris, 6 December 2006.	
		QUISQUATER et al., "Fast Decipherment Algorithm for RSA Public-Key Cryptosystem", 27th August 1982, Electronics Letters 14th October 1982, Vol. 18, No. 21, pp. 905-907.	
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		ROBSHAW et al., "Overview of Elliptic Curve Cryptosystems", RSA Laboratories Technical Note, revised June 27, 1997, downloaded: 23 January 2007, website: <a href="http://www.rsasecurity.com/rsalabs/node.asp?id=2013">http://www.rsasecurity.com/rsalabs/node.asp?id=2013</a>	
		SCHNEIER, Bruce, "Applied Cryptography", 2nd Edition, John Wiley & Sons, Inc., 1996, pp. 525-573 (German translation).	
		SCHNORR, C.P., "Efficient Signature Generation by Smart Cards", Journal of Cryptology, 1991, pp. 161-174.	
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		STEINER et al., "Diffie-Hellman Key Distribution Extended to Group Communication", Third ACM Conf. Computer and Comm. Security, March 1996, pp. 31-37.	
		YEN et al., "RSA Speedup with Chinese Remainder Theorem Immune against Hardware Fault Cryptanalysis", IEEE Transactions on Computers, April 2003, Vol. 52, No. 4., pp. 461-472.	

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